Appl. No. 10/695,367 Amdt. dated 11/21/07 Reply to Office action of 8/22/07 CENTRAL PAX CENTER NOV 2 1 2007

## **CLAIM AMENDMENTS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

Claim 1 (currently amended). A material mixture, comprising: an amount of a phase change material and an amount of particulate expanded graphite mixed with said phase change material, wherein the expanded graphite is present in an amount of 5 to 40% by volume and is formed of particles comprising comminuted, compacted expanded graphite product with a bulk density of from 60 to 200 g/l.

Claim 2 (cancelled).

Claim 3 (original). The mixture according to claim 1, which further comprises a nucleating agent for a phase transition of the phase change material.

Claim 4 (original). The mixture according to claim 3, wherein said nucleating agent is present in an amount of at most 2% by volume of the mixture.

Claim 5 (currently amended). The mixture according to claim 1, wherein said expanded graphite is formed of particles have with a bulk density of 2 to 200 g/l-and a mean particle diameter of 5 µm to 5 mm.

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Claim 6 (cancelled).

Claim 7 (original). The mixture according to claim 1, wherein said phase change

material has a phase transition temperature in a range from -100°C to +500°C and

is a material selected from the group consisting of paraffins, sugar alcohols, gas

hydrates, water, aqueous salt solutions, salt-water eutectics, salt hydrates, mixtures

of salt hydrates, salts and eutectic mixtures of salts, alkali metal hydroxides, and

mixtures of salts and alkali metal hydroxides.

Claim 8 (currently amended). A method for producing a heat storage device, which

comprises:

mixing an amount of expanded graphite and an amount of phase change material

to produce the mixture according to claim 1, wherein the expanded graphite is

present in an amount of 5 to 40% by volume and is formed of particles comprising

comminuted, compacted expanded graphite product with a bulk density of from 60

to 200 g/l; and

shaping the mixture under pressure to form a shaped body.

Claim 9 (original). The method according to claim 8, wherein the mixing step

comprises mixing a powder of the expanded graphite with a powder of the phase

change material.

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Claim 10 (original). The method according to claim 8, wherein the mixing step comprises melting the phase change material and mixing expanded graphite into the molten phase change material.

Claim 11 (original). The method according to claim 8, wherein the shaping step comprises pressing the materials into the form of a shaped body.

Claim 12 (original). The method according to claim 8, which comprises forming the shaped body with anisotropic thermal conductivity by one of extrusion and injection molding.

Claim 13 (original). The method according to claim 8, which comprises forming the shaped body having anisotropic thermal conductivity with a jolting molding machine.